WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/16/14	
Applicant:	• •											Marshall	
Investigators		BJC/RAJ				Subregio	`	or LRR):	MLRA 56		State:	MN	
Soil Unit:	165A							I Classification:	:				
Landform:	Depression		10			cal Relief:					Sample Point	w-156n46w33-c1	
Slope (%):	0 - 2%	and the second second	Latitude: 48				-96.577		Datum:				
		nditions on the site				I f? (If no, ex				□ No	Section:		
Are Vegetation	•	☑, or Hydrology	•	_			Are	e normal circun	-	esent?	Township:		
Are Vegetation		□, or Hydrology	□aturally	prob	lematic?			□ Yes	☑ No		Range:	Dir:	
SUMMARY C										L D	V		
Hydrophytic '	_		Yes							Is Present?		Tallacilo Vasa	
	drology Prese		Ye					. 11 16.2			t Within A W		
Remarks:		•			•	•	_			•		ybean field. All wetland	
	•	were observed. Ti	he vegetati	ion is	s disturbed f	rom herb	icide use	e. The soils are	disturbed d	ue to tilling.			
HYDROLOG	Y												
Wetland Hy Primary		icators (Check all	that apply;	; Min	imum of one	e primary	or two se	econdary requi	red):	Secondary:			
	A1 - Surface \					B11 - Salt					B6 - Surface S		
	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturatio B1 - Water Ma					C1 - Hydro					B10 - Drainag		(tillod)
	B2 - Sedimen					C2 - Dry S		spheres on Living	Roots (not till	. □	C8 - Crayfish	Rhizospheres on Living Roots Burrows	(tillea)
	B3 - Drift Dep	•						duced Iron	rtooto (not tiii	` _	•	n Visible on Aerial Imagery	ļ
V	B4 - Algal Ma					C7 - Thin I		ace			D2 - Geomorp		
	B5 - Iron Dep					Other (Exp	olain)				D5 - FAC-Neu		ļ
	B7 - Inundation	n Visible on Aerial Im	agery								D7 - Frost-He	aved Hummocks (LRR F)	ļ
	ba - water-st	allieu Leaves											ļ
Field Observ	vations:												
Surface Water		Yes	Do	nth:		(in)							
Water Table		Yes		epth: _ epth:		(in.) (in.)			Wetland F	łydrology F	Present?	Υ	
Saturation P		Yes \square		epth:		(in.)						- 	
Catalation	1000111.					(111)							
						. ,							
	· · · · · · · · · · · · · · · · · · ·	stream gauge, moni	toring well,	aeria		evious insp							
Describe Rec	· · · · · · · · · · · · · · · · · · ·		toring well,	aeria		evious insp			baceous ve	getation is p	present.		
Remarks:	· · · · · · · · · · · · · · · · · · ·	stream gauge, moni	toring well,	aeria		evious insp			baceous ve	getation is p	oresent.		
Remarks:	Algal crusts	stream gauge, moni and surface soil c	toring well, a	aeria e obs	served throu	evious insp ghout the	wetland	. Very little herl		getation is p	present.		
Remarks: SOILS Profile Descri	Algal crusts	stream gauge, moni and surface soil control	toring well, a	aeria e obs	served throu	evious insp ghout the cator or co	wetland	. Very little herle e absence of in	ndicators.)	getation is p	present.		
Remarks: SOILS Profile Descri	Algal crusts	stream gauge, moni and surface soil c	toring well, a	aeria e obs	served throu	evious insp ghout the cator or co	wetland	. Very little herle e absence of in	ndicators.)	getation is p	oresent.		
Remarks: SOILS Profile Descri	Algal crusts	stream gauge, moni and surface soil c be to the depth ne etion, RM=Reduced Ma	toring well, a	aeria e obs	served throu	evious insp ghout the cator or co	onfirm the	. Very little herle e absence of in ore Lining, M=Matr	ndicators.)	getation is p	present.		
Remarks: SOILS Profile Descri (Type: C=Concer	Algal crusts	stream gauge, monionand surface soil controls be to the depth neletion, RM=Reduced Matrix	toring well, a cracks were eeded to do atrix, CS=Cov	aeria e obs	served throusent the indicated Sand G	evious insp ghout the cator or co Grains; Loca	onfirm the	. Very little herle e absence of in ore Lining, M=Matres	ndicators.)		present.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	Algal crusts iption (Descri	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	eded to do	aeria e obs	served throu	evious insp ghout the cator or co Grains; Loca	onfirm the	. Very little herle e absence of in ore Lining, M=Matr	ndicators.)	Texture	present.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	Algal crusts iption (Descri	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	eded to do	aeria e obs cum vered/	ent the indic Coated Sand C	evious insp ghout the cator or co Grains; Loca Moist)	onfirm the tion: PL=Pe	e absence of inore Lining, M=Matres Type	ndicators.)	Texture LFS	present.	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	Algal crusts iption (Descri	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	eded to do	aeria e obs cum vered/	served throusent the indicated Sand G	evious insp ghout the cator or co Grains; Loca Moist)	onfirm the	. Very little herle e absence of in ore Lining, M=Matres	ndicators.)	Texture	present.	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Algal crusts iption (Descrintration, D=Depleted Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2	eeded to do	aeria e obs ecum vered/ 00 85	coated Sand Coated Sand Coated Sand Color (N	evious inspections in specific description of the cator or control of the cator of th	mottle wetland onfirm the tion: PL=Per Mottle wetland 15	e absence of in ore Lining, M=Matrees Type C	ndicators.)	Texture LFS	present.	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Algal crusts iption (Descrintration, D=Depleted Price Soil Field A1- Histosol	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (ch	eeded to do	aeria e obs cum vered/ 00 85	Color (Note that the indicated Sand Color (Note that Indicated Sand Sand) Research	evious inspector or control of presented ox	mottle wetland onfirm the tion: PL=Per Mottle wetland 15	e absence of in ore Lining, M=Matrees Type C	Location M	Texture LFS FS Indicators f A9 - 1 cm M	or Problemati	c Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Algal crusts iption (Descrintration, D=Depleted Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Histosol	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (characters)	eeded to do	aeria e obs cum vered/ % 00 35	Color (No. 100) Coated Sand Control Coated Sand Control Color (No. 100) Cators are noted Sand Research Sandy Research Sand	evious inspections in specific description of presentation of	monfirm the month of the month	e absence of in ore Lining, M=Matrees Type C	Location M	Texture LFS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problemati uck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Algal crusts iption (Descrintration, D=Depleted in tration, D=Deple	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (characters)	eeded to do	aeria e obs cum vered/ 00 35	Coated Sand Sandy Research	evious inspections in specific description of presentation of	monfirm the month of the month	e absence of in ore Lining, M=Matrees Type C	Location M	Texture LFS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils¹ (LRR F, G, H)	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	e: L3R				Sample Point: w-156n46w33-c1
/ECETATIC	On sains identified in all company or		-ni\		
VEGETATIO	` ` '	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) Species Name	0/ Cayar	Dominant	Ind Ctatus	Dominance Test Worksheet
1	Species ivanie	% Cover	<u>Dominant</u>	Ind.Status	Dominance rest worksneet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.					
4.					Total Number of Dominant Species Across All Strata:3(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					-
					Total % Cover of: Multiply by:
10.					OBL spp. $\frac{18}{18}$ $\times 1 = \frac{18}{18}$
	Total Cover =	0			FACW spp. 2
					FAC spp. $\underline{\qquad}$ $X 3 = \underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp3
1.	Populus deltoides	3	N	FAC	UPL spp. $0 x 5 = 0$
2.	Salix interior	1	Υ	FACW	
3.					Total 27 (A) 46 (B)
4.					10tal <u>27</u> (71) <u>40</u> (B)
					Drovolones Index D/A 4.704
5.					Prevalence Index = B/A = <u>1.704</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
		4			X Prevalence Index is ≤ 3.0 *
	1000 -				
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Rorippa palustris	10	Υ	OBL	
2.	Chenopodium rubrum	5	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Amaranthus albus	3	N	FACU	present, unless disturbed or problematic.
4.	Rumex stenophyllus	1	N	FACW	Definitions of Vegetation Strata:
5.	Juncus tenuis	1	N	FAC	
6	Epilobium coloratum	1	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.		<u>'</u> 1	N	OBL	height (DBH), regardless of height.
	Cyperus squarrosus	<u>'</u>	N		-
8.	Typha X glauca	1	IN	OBL	O II (O) I Was dealers to see their O in DDII as wordless of height
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					†
15.					Woody Vines - All woody vines, regardless of height.
15.	7.10				WOOdy Villes - All Woody Villes, Tegardiess of Height.
	Total Cover =	23			
Woody Vine S	Stratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.	Tatal Oassa				
	Total Cover =				
Remarks:					d is dominated by common yellowcress and red goosefoot. The sample plot was
	altered to avoid sampling in the adjacent Shi	rub-Carr co	ommunity.		
Additional	Domarka				
Additional	Nemaiks.				